

1998 FATALITY RATES

Number, percent and rate of fatal occupational injuries by selected worker characteristics, occupation and industry, 1998					
Characteristic	Fatalities		Employed ¹ (in thousands)	Fatalities	Relative
	Number	Percent		per 100,000 employed ²	standard error ³
Total	6,026	100	132,684	4.5	.1
Employee status					
Wage and salary workers	4,782	79	122,240	3.9	.2
Self-employed	1,244	21	10,444	11.7	1.1
Gender					
Men	5,544	92	71,744	7.7	.3
Women	482	8	60,940	0.8	.4
Age					
Under 16 years	33	1	--	--	--
16 to 17 years	32	1	2,764	1.2	2.1
18 to 19 years	136	2	4,383	3.1	1.7
20 to 24 years	418	7	12,923	3.2	.9
25 to 34 years	1,233	20	31,850	3.9	.6
35 to 44 years	1,521	25	36,543	4.2	.5
45 to 54 years	1,271	21	27,623	4.6	.6
55 to 64 years	835	14	12,873	6.5	1.0
65 years and over	534	9	3,725	14.3	1.8
Unspecified	13	--	--	--	--
Race and Hispanic origin					
White	5,016	83	111,863	4.5	.2
Black or African American	591	10	14,795	4.0	.9
American Indian, Aleut, Eskimo	28	--	--	--	--
Asian, Pacific Islander	148	2	--	--	--
Other	115	2	--	--	--
Not reported	128	2	--	--	--
Hispanic	700	12	13,381	5.2	.9
Occupation					
Managerial and professional specialty occupations	637	11	38,937	1.6	.5
Executive, administrative, and managerial occupations	408	7	19,054	2.1	.8
Managers, food serving and lodging establishments	56	1	1,453	3.9	2.9
Management related occupations	62	1	4,700	1.3	1.6
Professional specialty	229	4	19,883	1.2	.7
Technical, sales, and administrative support occupations	678	11	38,521	1.8	.5
Technicians and related support occupations	168	3	4,261	3.9	1.7
Technicians, except health, engineering and science	113	2	1,273	8.9	3.1
Airplane pilots and navigators	91	2	113	80.5	10.6
Sales occupations	396	7	15,850	2.5	.8
Supervisors and proprietors, sales occupations	185	3	4,719	3.9	1.6
Sales workers, retail and personal services	152	3	6,784	2.2	1.3
Cashiers	52	1	3,025	1.7	2.0
Administrative support occupations, including clerical	114	2	18,410	0.6	.8
Service occupations	439	7	17,836	2.4	.8
Protective service occupations	257	4	2,417	10.6	2.3
Police and detectives, including supervisors	137	2	1,180	11.6	3.3
Guards, including supervisors	75	1	946	7.9	3.6
Service occupations, except protective and household	176	3	14,572	1.2	.9
Food preparation and service occupations	50	1	6,071	0.8	1.4
Cleaning and building service occupations, except household	69	1	3,112	2.2	2.0

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Total	6,026	100	132,684	4.5	.1
Janitors and cleaners	56	1	2,233	2.5	2.4
Farming, forestry, and fishing occupations	921	15	3,502	25.5	1.9
Farm occupations	592	10	1,980	28.6	2.5
Farmers, except horticultural	277	5	935	29.5	3.7
Managers, farms, except horticultural	81	1	170	45.9	8.6
Farm workers	218	4	835	23.6	3.9
Related agricultural occupations	123	2	1,268	9.6	3.1
Groundskeepers and gardeners, except farm	108	2	924	11.6	3.7
Forestry and logging occupations	118	2	91	129.7	11.8
Timber cutters	109	2	77	141.6	12.8
Timber cutting and logging occupations	89	1	60	148.3	14.5
Fishers, hunters, and trappers	72	1	53	134.0	15.4
Fishers, including vessel captains and officers	71	1	51	137.3	15.7
Precision production, craft, and repair occupations	1,084	18	14,411	7.5	.9
Mechanics and repairers	285	5	4,786	6.0	1.6
Mechanics and repairers, except supervisors	273	5	4,527	6.0	1.6
Vehicle and mobile equipment mechanics and repairers	136	2	1,845	7.4	2.6
Construction trades	631	10	5,594	11.3	1.5
Supervisors, construction occupations	89	1	755	11.8	4.1
Construction trades, except supervisors	542	9	4,839	11.2	1.6
Carpenters	90	1	1,346	6.7	3.0
Electricians	124	2	806	15.4	3.9
Roofers	50	1	241	20.7	7.2
Structural metal workers	52	1	63	82.5	14.1
Extractive occupations	60	1	125	48.0	10.0
Precision production occupations	108	2	3,907	2.8	1.8
Operators, fabricators, and laborers	2,151	36	18,256	11.8	.8
Machine operators, assemblers, and inspectors	221	4	7,791	2.8	1.2
Machine operators, assorted materials	100	2	2,840	3.5	2.1
Fabricators, assemblers, and hand working occupations	79	1	2,090	3.8	2.4
Welders and cutters	65	1	588	11.1	4.6
Transportation and material moving occupations	1,257	21	5,363	23.4	1.5
Motor vehicle operators	1,020	17	4,069	25.1	1.7
Truck drivers	879	15	3,012	29.2	2.0
Taxicab drivers and chauffeurs	82	1	273	30.0	6.8
Material moving equipment operators	197	3	1,127	17.5	3.3
Handlers, equipment cleaners, helpers, and laborers	673	11	5,102	13.2	1.5
Construction laborers	335	6	821	40.7	3.9
Freight, stock, and material handlers	80	1	1,988	4.0	2.5
Laborers, except construction	192	3	1,298	14.7	3.1
Military	88	1	1,221	7.2	3.2
Other or not reported	28	--	--	--	--
Industry					
Private industry	5,428	90	113,066	4.8	.2
Agriculture, forestry, and fishing	831	14	3,450	23.3	1.9
Agricultural production, crops	378	6	1,012	35.6	3.5
Agricultural production, livestock	174	3	1,092	15.3	3.4
Agricultural services	167	3	1,259	13.3	3.2
Landscape and horticultural services	110	2	877	12.5	3.8
Fishing, hunting, and trapping	75	1	56	132.1	15.0
Mining	146	2	618	23.6	4.5

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Total	6,026	100	132,684	4.5	.1
Oil and gas extraction	76	1	373	20.4	5.8
Construction	1,171	19	8,044	14.5	1.2
Manufacturing	694	12	20,665	3.3	.7
Food and kindred products	72	1	1,654	4.3	2.7
Lumber and wood products	170	3	861	19.7	3.8
Logging	123	2	133	92.5	9.7
Stone, clay, and glass products	50	1	592	8.4	4.6
Industrial machinery and equipment	63	1	2,479	2.5	2.2
Transportation equipment	61	1	2,364	2.6	2.3
Transportation and public utilities	909	15	7,713	11.8	1.2
Local and interurban passenger transit	85	1	552	15.4	4.8
Taxicabs	63	1	134	47.0	9.7
Trucking and warehousing	562	9	2,578	21.8	2.2
Trucking and courier services, except air	544	9	2,409	22.6	2.3
Water transportation	52	1	203	25.6	7.9
Transportation by air	74	1	832	8.9	3.9
Electric, gas, and sanitary services	83	1	1,060	7.8	3.4
Wholesale trade	228	4	5,077	4.5	1.6
Wholesale trade, durable goods	137	2	2,764	5.0	2.1
Wholesale trade, nondurable goods	91	2	2,314	3.9	2.3
Retail trade	569	9	22,010	2.6	.7
Food stores	135	2	3,602	3.7	1.9
Grocery stores	120	2	3,113	3.9	2.0
Automotive dealers and service stations	119	2	2,221	5.4	2.4
New and used car dealers	52	1	1,226	4.2	3.2
Eating and drinking places	107	2	6,723	1.6	1.3
Finance, insurance, and real estate	92	2	8,399	1.1	1.2
Services	757	13	37,090	2.0	.5
Business services	194	3	6,403	3.0	1.4
Auto repair, services, and parking	132	2	1,532	8.6	2.9
Automotive repair shops	107	2	1,149	9.3	3.3
Government	598	10	19,618	3.0	.8
Federal	164	3	4,468	3.7	1.7
State	135	2	5,160	2.6	1.5
Local	295	5	9,990	3.0	1.1
<p>¹ The fatality rates are experimental measures using employment from the Current Population Survey (CPS). The employment figures, except for military, are annual average estimates of employed civilians, 16 years of age and older, from the CPS, 1998. The resident military figure, derived from resident and civilian population data from the Bureau of the Census, was added to the CPS employment total.</p>					
<p>² The rate represents the number of fatal occupational injuries per 100,000 employed workers and was calculated as follows: $(N/W) \times 100,000$, where N = the number of fatal work injuries, and W = the number of employed workers. There were 33 fatally injured workers under the age of 16 years that were not included in the rate calculations to maintain consistency with the CPS employment.</p>					
<p>³ The relative standard errors of the CPS employment estimates can be used to approximate confidence ranges for the fatality rates. For example, a confidence range for the roofers rate can be approximated as follows: $20.7 \times .072 \times 1.6 = 2.4$, where 20.7 = the rate, .072 = the relative standard error (7.2 percent), and 1.6 = the factor for a 90 percent confidence level. The confidence range for this rate is 18.3 to 23.1 (20.7 plus or minus 2.4).</p>					
<p>NOTE: Selected rate categories had 50 or more work injury fatalities in 1998. Dashes indicate data not available or less than .5 percent. Totals for major categories may include subcategories not shown separately. Figures may not add to totals because of rounding.</p>					
<p>SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, 1998</p>					